TRIAD™/MC III

Disinfectant Cleaner

One-step disinfectant-cleaner for use in institutions, schools and hospitals.

Broad Spectrum Activity

Effective against a broad spectrum of bacteria, antibiotic resistant bacteria, is virucidal (kills HIV-1 on environmental surfaces), fungicidal and will prevent the growth of mold and mildew when used as directed.

Effective Deodorizer

Neutralizes odors on surfaces in restroom areas, sinks and counters, garbage storage areas and other places where bacterial growth can cause malodors.

Versatile

Formulated for use as a daily general disinfectant cleaner or as a non-acid bathroom cleaner.

Effective in Hard Water

Disinfects in up to 500 ppm hard water.

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TRIAD™/MC III
DISINFECTANT CLEANER

Profile

What is it?	A disinfectant cleaner.
What do I use it on?	For use on hard, non-porous surfaces such as floors, walls, tables, chairs, doorknobs and handles, countertops, sinks, urinals, toilet bowls, toilet bowl surfaces, showers, tubs, conductive flooring and lavatory fixtures. For use in hospitals, medical and dental offices, nursing homes, public rest rooms, institutions, schools, colleges, athletic facilities, food processing plants, food storage areas, kitchens, bathrooms, restaurants and bars, airports, transportation terminals, hotels and motels.
How do I use it?	TRIAD III ™/MC cleaner is extremely versatile and can be applied with a mop, sponge, cloth or coarse trigger sprayer according to label directions. Thoroughly wet surfaces with the recommended use solution for at least 10 minutes. Rinsing is not necessary on floor surfaces unless floors are to be waxed or polished.

Specifications

Use Dilution:	1:64 (2 oz. per gallon) for hospital use
Active Ingredients:	3.9% quaternary germicides (594 ppm at a 1:64 use dilution)
EPA Reg. No.:	70627-15
Surfactants:	Nonionic and cationic
Color/Form:	Transparent green liquid
Fragrance:	Pleasant, mint fragrance
pH:	13.0 (concentrate); 11.0 (use solution)
Solubility in Water:	Complete
Cleaning Performance:	Very Good
Rinsability:	Excellent
Foaming:	Slight to moderate
Specific Gravity (water = 1.0):	1.08
Flash Point:	None (TCC)
Chemical Stability:	Chemically stable from 40°F to 100°F (germicidal properties not affected by storage in this temperature range)
Shelf Life:	2 years (Concentrate)

HMIS/NFPA Hazard Rating

	Concentrate	Use Solution (1:64)
Health	3	0
Flammability	0	0
Reactivity	0	0

Packaging

Pack/Size	Product Code
1 / 5 L RTD unit (Fill)	3143429
4 / 1 Gallon containers	3164385
1 / 5 Gallon ENVIROBOX™	3164393
4 / 64 oz. SOLUTIONS CENTER™ cartridges	3164414
2 / 84.5 oz./ 2.5 L J-FILL™ cartridges	3164406

Safety Reminder

Please make sure your employees read and understand the product label and Material Safety Data Sheet before using this product. The label contains directions for use, and both the label and MSDS contain hazard warnings, precautionary statements and first aid procedures. MSDS's are available online at www.johnsondiversey.com or by calling 1-888-352-2249.

Efficacy Summary

Using approved AOAC test methods (under Good Laboratory Practices, [GLP's], in the presence of 500 ppm hard water, 10% serum load and 10 minutes contact time, TRIAD III disinfectant cleaner kills the following on hard non-porous inanimate surfaces:

Bacteria:
Pseudomonas aeruginosa, Staphylococcus aureus, Salmonella choleraesuis, Bordetella bronchiseptica, Burkholderia cepacia, Campylobacter fetus, Citrobacter freundii, Enterobacter agglomerans, Enterobacter cloacae, Enterobacter liquefaciens, Enterococcus faecalis, Enterococcus hirae, Escherichia coli, Escherichia coli 0157:H7, Flavobacterium meningosepticum, Haemophilus influenza, Hafnia alvei, Klebsiella oxytoca, Klebsiella pneumoniae, Legionella pneumophila, Listeria monocytogenes, Micrococcus luteus, Micrococcus sedentarius, Morganella morganii, Neisseria gonorrhae, Pasteurella multocida, Proteus mirabilis, Proteus vulgaris, Pseudomonas diminuta, Pseudomonas fluorescens, Pseudomonas putida, Pseudomonas stutzeri, Salmonella enteritidis, Salmonella gallinarum, Salmonella schottmuelleri, Salmonella typhi, Salmonella typhimurium, Shigella dysenteriae, Shigella flexneri, Shigella sonnei, Staphylococcus aureus (Toxic Shock), Staphylococcus epidermidis, Staphylococcus haemolyticus, Staphylococcus species, Streptococcus agalactiae, Streptococcus mutans, Streptococcus pyogenes (Strep A - Flesh Eating Strain), Vibrio cholera,Yersinia enterocolitica

Antibiotic-Resistant Bacteria:
E. coli (resistant to Kanamycin); E. coli (resistant to Tetracycline); Enterococcus faecium (Resistant to Vancomycin (VRE); Klebsiella oxytoca (resistent to Ampicillin, Dihydrostreptomycin); Micrococcus sedentarius (Resistant to Methicillin); Staphylococcus aureus (Resistant to intermediate Vancomycin Strain (VISA)); Staphylococcus aureus (Resistant to Erythromycin, Penicillin, Streptomycin, Tetracycline); Staphylococcus aureus (Resistant to to Methicillin [MRSA]; Gentamicin [GRSA]); Streptococcus pneumoniae (resistant to penicillin [PRSP]).

****Virucidal Activity***

Cytomegalovirus, Herpes simplex Type 1, Herpes simplex Type 2, Parainfluenza Type 3, Respiratory syncytial virus, Rotavirus, Vaccinia virus.

Kills HIV-1 (AIDS virus) (HTLV-IIIB) when used on hard, non-porous inanimate surfaces with a 1-minute contact time.

Veterinary viruses: Avian Infectious bronchitis (IBV), Avian Influenza, Canine distemper, Feline virual rhinotracheitis, Infectious bovine rhinotracheitis, New Castle disease, Pseudorabies, Transmissible gastroenteritis virus (TGE).

Fungi/Yeast: Fungi: Geotrichum candidum, Trichophyton mentagrophytes (athlete's foot fungus).

Mold/Mildew – Mildew static activity controls and prevents (inhibits) the growth of mold and mildew: Aspergillus niger and the odors caused by them when applied to hard, non-porous environmental surfaces.

Malodor(s) Activity -eliminates (destroys) odors and odor-causing bacteria in restroom areas, behind and under sinks and counters, and storage areas (and other places where bacterial growth can cause malodors.

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For further information on special applications or other Johnson Wax Professional products, contact your JohnsonDiversey representative, call us at 1-800-558-2332 or visit our web-site at www.johnsondiversey.com

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Material Safety Data Sheet

TRIAD III DISINFECTANT CLEANER

National Fire Protection Association (NFPA)

Hazardous Material Information System (HMIS)

Health	3
Fire Hazard	0
Reactivity	0

Protective Clothing

Emergency Overview Green. Liquid. See Section 9.
DANGER. CORROSIVE. CAUSES EYE AND SKIN BURNS. HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED.

Section 1. Chemical Product and Company Identification

Product Name TRIAD III DISINFECTANT CLEANER

Code 3143411 & 3143429 & 3143437 & 3164385 & 3164393 & 3164414 & 3164406

Product Use Industrial/Institutional: Disinfectant.

PMS# Not available.

MSDS# F-00375001

Validation Date 9/11/2003

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Supersedes 8/19/2003.

In Case of Emergency (800) 851-7145

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Section 2. Composition and Information on Ingredients

Ingredients	CAS #	% by Weight	Exposure Limits	LC50/LD50
n-Alkyl Dimethyl Benzyl Ammonium Chloride	68424-85-1	3.90	Not available.	ORAL (LD50): Acute: 426 mg/kg [Rat].

Section 3. Hazards Identification

Routes of Entry Inhalation. Skin contact. Eye contact.

Potential Acute Health Effects

Eyes Corrosive. May cause permanent damage including blindness.

Skin Corrosive. May cause permanent damage.

Inhalation May cause irritation and corrosive effects to nose, throat and respiratory tract.

Ingestion Corrosive. May cause burns to mouth, throat, and stomach.

Medical Conditions Aggravated by Overexposure: Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Get medical attention immediately.

Skin Contact Take off contaminated clothing. Flush immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

Inhalation If breathing is difficult: Remove to fresh air. If person is not breathing, call 911 or an ambulance and then give artificial respiration, preferably by mouth to mouth, if possible.
Get medical attention immediately.

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Reference Sheet

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TRIAD™ III

Disinfectant Cleaner

It is designed for use on the following hard, non-porous environmental surfaces: vinyl, painted surfaces, plastic surfaces, glazed ceramic, glazed porcelain, chrome, stainless steel, aluminum, laminated surfaces and baked enamel surfaces associated with floors, walls, ceilings, tables, chairs, countertops, telephones, fixtures, glazed tile, toilets, urinals, sinks, shower rooms and locker rooms areas where disinfection is required. A potable water rinse is required for food contact surfaces. Do not use on glasses, dishes and utensils.

Can be applied by mop, sponge, cloth, paper towel, hand pump coarse trigger sprayer. Change cloth, sponges or towels frequently to avoid redeposition of soil. For disinfection, all surfaces must remain wet for 10 minutes.

When used as directed at a 1:64 dilution (2 oz. per gallon of water), this product contains 609 ppm of active quaternary germicide making it highly effective against a wide variety (broad-spectrum) of pathogenic microorganisms including bacteria, antibiotic resistant bacteria, viruses, fungi, mold and mildew.

Using approved AOAC test methods under Good Laboratory Practices, [GLP's], in the presence of 500 ppm hard water, 10% serum load and 10 minutes contact time this product kills the following on hard non-porous inanimate surfaces:

Bactericidal Activity:

Pseudomonas aeruginosa, (ATCC 15442)
Staphylococcus aureus, (ATCC 6538)
Salmonella choleraesuis, (ATCC 10708)
Bordetella bronchiseptica, (ATCC 10580)
Burkholderia cepacia, (ATCC 25416) formerly known as *Pseudomonas cepacia*
Campylobacter fetus, (ATCC 27374)
Citrobacter freundii, (ATCC 8090)
Enterobacter agglomerans, (ATCC 27155)
Enterobacter cloacae, (ATCC 23355)
Enterobacter liquefaciens, (ATCC 14460) formerly known as *Serratia grimesii and Serratia liquefaciens*
Enterococcus faecalis, (ATCC 19433) formerly known as *Streptococcus faecalis*
Enterococcus hirae, (ATCC 10541)
Escherichia coli, (ATCC 11229)
Escherichia coli 0157:H7, (ATCC 43890)
Flavobacterium meningosepticum, (ATCC 13253)
Haemophilus influenza, (ATCC 10211)
Hafnia alvei, (ATCC 13337)
Klebsiella oxytoca, (ATCC 13182)
Klebsiella pneumoniae, (ATCC 13883)
Legionella pneumophila, (ATCC 33153)
Listeria monocytogenes, (ATCC 15313)
Micrococcus luteus, (ATCC 4698)
Micrococcus luteus, (ATCC 14452),
Micrococcus sedentarius, (ATCC 27573)
Morganella morganii, (ATCC 25830)
Neisseria gonorrhae, (ATCC 43069)
Pasteurella multocida, (ATCC 43137)
Proteus mirabilis, (ATCC 9240)
Proteus vulgaris, (ATCC 13315)
Pseudomonas diminuta, (ATCC 11568)
Pseudomonas fluorescens, (ATCC 13525)
Pseudomonas putida, (ATCC 12633)
Pseudomonas stutzeri, (ATCC 17588)
Salmonella enteritidis, (ATCC 13076)
Salmonella gallinarum, (ATCC 9184)
Salmonella schottmuelleri, (ATCC 10719)
Salmonella typhi, (ATCC 6539)
Salmonella typhimurium, (ATCC 13311)
Shigella dysenteriae, (ATCC 29026)
Shigella flexneri, (ATCC 25875)
Shigella sonnei, (ATCC 25931)
Staphylococcus aureus, (ATCC 25923)
Staphylococcus aureus (Toxic Shock), (ATCC 33586)
Staphylococcus epidermidis, (ATCC 14990)
Staphylococcus haemolyticus, (ATCC 29970)
Staphylococcus species, (ATCC 12715)
Streptococcus agalactiae, (ATCC 13813)
Streptococcus mutans, (ATCC 25175)
Streptococcus pyogenes, (ATCC 19615)
Streptococcus pyogenes ("Strep A" - Flesh Eating Strain), (clinical isolate)
Vibrio cholera, (ATCC 11623)
Yersinia enterocolitica, (ATCC 9610)

Antibiotic-Resistant Bactericidal Activity:

E. coli, (ATCC 55244); (Resistant to Kanamycin)
E. coli, (ATCC 47041); (Resistant to Tetracycline)
Enterococcus faecium, (ATCC 51559); (Resistant to Vancomycin (VRE))
Klebsiella oxytoca, (ATCC 15764); (Resistant to Ampicillin, Dihydrostreptomycin)
Micrococcus sedentarius, (ATCC 27573); (Resistant to Methicillin)
Staphylococcus aureus, (CDC HIP 5836); (Resistant to intermediate Vancomycin strain (VISA))
Staphylococcus aureus, (ATCC 14154); (Resistant to Erythromycin, Penicillin, Streptomycin, Tetracycline)
Staphylococcus aureus, (ATCC 33592); (Resistant to Methicillin (MRSA), Gentamicin (GRSA)
Streptococcus pneumoniae, (ATCC 51915); (Resistant to Penicillin (PRSP))

***Virucidal Activity:**

Cytomegalovirus, (VR-538)
Herpes simplex Type 1, (VR-733)
Herpes simplex Type 2, (VR-734)
Parainfluenza Type 3, (VR-93)
Respiratory syncytial virus, (VR-26)
Vaccinia virus (smallpox vaccine virus), (VR-119)

Kills HIV-1 (AIDS virus) (HTLV-III_B) when used as directed on hard, non-porous inanimate surfaces with a 1 minute contact time.
Kills Hepatitis B (HBV) virus when used as directed on hard, non-porous inanimate surfaces with a 5 minute contact time.

(Veterinary viruses:)
Avian Infectious bronchitis (IBV), (VR-22)
Avian Influenza, (VR-2072)
Canine distemper, (VR-128)
Feline Rhinotracheitis, (VR-636)
Infectious bovine rhinotracheitis, (VR-188)
New Castle disease, (VR-108)
Pseudorabies, (VR-135)
Transmissible gastroenteritis virus (TGE), (U of Minn. Strain)

Fungicidal and Yeast Activity:

Geotrichum candidum, (ATCC 18301)
Trichophyton mentagrophytes (athlete's foot fungus), (ATCC 9533)

Mold/Mildew Mildewstatic Activity - controls and prevents (inhibits) the growth of mold and mildew: *Aspergillus niger* (ATCC 6275) and the odors caused by them when applied to hard, non-porous environmental surfaces.

Malodor(s) Activity– eliminates (destroys) odors and odor-causing bacteria in restroom areas, behind and under sinks and counters, and storage areas and other places where bacterial growth can cause malodors.

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Ingestion	Call medical attendant, doctor, or poison control center immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person.
Notes to Physician	Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5. Fire Fighting Measures

Flammability of the Product	None known.
Flash Points	Closed cup: >93.333°C (200°F).
Products of Combustion	None known.
Fire Fighting Media and Instructions	Extinguish with water spray or carbon dioxide, dry chemical powder or appropriate foam. Normal fire fighting procedure may be used.
Protective Clothing (Fire)	Put on appropriate personal protective equipment (see Section 8).
Special Remarks on Fire and Explosion Hazards	Corrosive material (See sections 8 and 10).

Section 6. Accidental Release Measures

Personal Precautions	Put on appropriate personal protective equipment (see Section 8).
Environmental Precautions and Clean-up Methods	In the event of major spillage: Use appropriate containment to avoid environmental contamination. Sweep or scrape up material. Place in suitable clean, dry containers for disposal by approved methods. Use a water rinse for final clean-up.

Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling. Avoid breathing vapors or spray mists. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
Storage	Store in a dry, cool and well-ventilated area. Protect from freezing. Keep container tightly closed. KEEP OUT OF REACH OF CHILDREN.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.
Personal Protection	
Eyes	Chemical splash goggles. or Face shield.
Hands	Chemical resistant gloves.
Respiratory	No specific personal protection equipment is required.
Feet	No specific personal protection equipment is required.
Body	If major exposure is possible, wear suitable protective clothing and footwear.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.
Odor	Minty.
Color	Green. (Dark.)
pH	13
Specific Gravity	1.077
Solubility in water	Complete.

Continued on Next Page

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	None known.
Incompatibility with Various Substances	Reactive with acids.
Hazardous Decomposition Products	When exposed to fire: Produces normal products of combustion.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Acute toxicity	ORAL (LD50) Estimated to be between 1000 and 2500 mg/kg (rat). Corrosive.
Effects of Chronic Exposure	None known.
Other Toxic Effects	None known.

Section 12. Ecological Information

Not available.

Section 13. Disposal Considerations

Waste Information	PESTICIDAL WASTE - Observe all applicable Federal/Provincial/State regulations and Local/Municipal ordinances regarding disposal of pesticide wastes.

Section 14. Transport Information

DOT Classification

DOT Proper Shipping Name	Please refer to the Bill of Lading/receiving documents for up to date shipping information.

TDG Classification

TDG Proper Shipping Name	Please refer to the Bill of Lading/receiving documents for up to date shipping information.
TDG Class	

Section 15. Regulatory Information

Reporting in this section is based on ingredients disclosed in Section 2

US Regulations

This product is not subject to the reporting requirements under California's Proposition 65.

Registered Product Information EPA Registration Number: 70627-15

Canadian Regulations

WHMIS Classification Exempt

WHMIS Icon

Registered Product Information Not applicable.

Chemical Inventory Status All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory

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Section 16. Other Information

Other Special Considerations	Not available.
Version	1.02

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